

Amendments to the Specification:

Please replace the last paragraph on page 3 with the following paragraph:

CLUSTAL W (1.82) multiple sequence alignment

d ----- QRLGHQW-AVGHLM ----- 13	<u>SEQ ID NO:4</u>
e ----- DSFGNQW-ARGHFM ----- 13	<u>SEQ ID NO:5</u>
c AVWKDF ----- LKNIGIKAA-GKAVLNSVTDMVNE ----- 28	<u>SEQ ID NO:3</u>
i ALWKDI ----- LKNVGKAA-GKAVLNTVTDMVNQ ----- 28	<u>SEQ ID NO:9</u>
m GIFSKFGRKKIKNLLISGLKNVGKEV-GMDVVRTGIDIAGCKIKGEC 46	<u>SEQ ID NO:13</u>
n GIFSKLAGKKLKNLLISGLKNVGKEV-GMDVVRTGIDIAGCKIKGEC 46	<u>SEQ ID NO:14</u>
l ----- KGAAKGLLEVASCCKLSKSC 19	<u>SEQ ID NO:12</u>
o GILS-T ----- IKDFAIKA-GKGAAGLLEMASCKLSGQC 33	<u>SEQ ID NO:15</u>
p GILLDK ----- LKNFAKTA-GKGVLSLLNTASCCKLSGQC 34	<u>SEQ ID NO:16</u>
k ----- FLPIIAGV-AAKVFPKIF ---- CAISKKC 24	<u>SEQ ID NO:11</u>
q ----- FLPLLAGL-AANFLPKIF ---- CKITRKC 24	<u>SEQ ID NO:17</u>
b ----- M-LADVFEKIM ---- GD ----- 12	<u>SEQ ID NO:2</u>
a ----- RRKP - LFPFIPRPK ----- 13	<u>SEQ ID NO:1</u>
----- GKPFYPPPIYPEDM ----- 14	<u>SEQ ID NO:6</u>
h ----- XXPL -- APFFQAVFK ----- 13	<u>SEQ ID NO:8</u>
g ----- IYNAICPCKHCNKCKPGLLAN ----- 21	<u>SEQ ID NO:7</u>
j ----- ALSILRGL -- EKLAKMGIALTNCKATKKC 27	<u>SEQ ID NO:10</u>

Please replace Table 1 on page 7 with the following Table:

Peptide ID	Insulin release (ng/10 ⁶ cells/20mins)	Experi-mental Mass (Da)	Amino acid sequence	Database match	Theoretical (Calculated) Mass (Da)
None	1.71 ± 0.12				
1.3	2.52 ± 0.23**	ND	No sequence		
1.10	2.61 ± 0.11**	1653.2	RRKPLFPFIPRPK <u>(SEQ ID NO:1)</u>	No Match	1652.1
1.17	2.10 ± 0.15*	ND	No sequence		
1.18	2.52 ± 0.05***	ND	No sequence		

Please replace Table 2 on page 8 with the following Table:

Peptide ID	Insulin release (ng/10 ⁶ cells/20mins)	Experi-mental Mass (Da)	Amino acid sequence	Database match	Theoretical (Calculated) Mass (Da)
None	1.95 ± 0.16				
1.7	4.22 ± 0.48***	2546.2	MLADVFEKIMGD (SEQ ID NO:2) ... (Insufficient sample)		
2.9	7.46 ± 0.08***	3020.0	AVWKDFLKNIGK AAGKAVLNSVTD MVNE (SEQ ID NO:3)	Dermasept in B IV precursor 79% ID	3019.5

Please replace Table 3, bridging pages 8 and 9, with the following table:

Peptide ID	Insulin release (ng/10 ⁶ cells/20mins)	Experi-mental Mass (Da)	Amino acid sequence	Database match	Theoretical (Calculated) Mass (Da)
None	1.74 ± 0.08				
21	4.66 ± 0.24***	1641.7	Pyr- QRLGHQWAVG HLM-amidated (SEQ ID NO:4)	Bombesin 93% ID (His) ⁶ Bombesin	1642.7
22	4.75 ± 0.13***	1662.6	Pyr- DSFGNQWARG HFM-amidated (SEQ ID NO:5)	Bombesin 72% ID	1662.9
23	5.67 ± 0.30***	1619.8	Pyr-	Bombesin	1620.7

Peptide ID	Insulin release (ng/10 ⁶ cells/20mins)	Experi-ental Mass (Da)	Amino acid sequence	Database match	Theoretical (Calculated) Mass (Da)
			QRLGNQWAVG HLM-amidated (SEQ ID NO:25)	100 % ID	
24	4.30 ± 0.20***	1650.5	GKPFYPPPIYPE DM (SEQ ID NO:6)	Tryptophyllin 57 % ID	1650.9
25	2.39 ± 0.30***	2300.0	IYNAICPCKHCN KCKPGLLAN (SEQ ID NO:7)	No Match	2299.8

Please replace Table 4 on page 9 with the following Table:

Peptide ID	Insulin release (ng/10 ⁶ cells/20mins)	Experi-mental Mass (Da)	Amino acid sequence	Database match	Theoretical (Calculated) Mass (Da)
None	1.47 ± 0.04				
1.8	2.48 ± 0.37**	8326.4	XXPLAPFFQAVFK (SEQ ID NO:8) ...(Insufficient sample)		
1.11	2.10 ± 0.16**	3379.9	ND		
2.10	2.356 ± 0.34**	2996.4	ALWKDILKNVGKA AGKAVLNTVTDMV NQ (SEQ ID NO:9)	Dermaseptin B IV precursor 100% ID	2998.5

Please replace Table 5 on page 10 with the following Table:

Peptide ID	Insulin release (ng/10 ⁶ cells/20mins)	Experimental Mass (Da)	Amino acid sequence	Database match	Theoretical (Calculated) Mass (Da)
None	1.467 ± 0.04				
2.6	1.93 ± 0.23**	ND	ND		
2.7	4.14 ± 0.40***	8560.4	ND		
3.1	2.12 ± 0.09***	4919.9	ND		
3.8	2.48 ± 0.44**	2873.5	ALSILRGLEKLAK MGIALTNCKATKK C (SEQ ID NO:10)	Brevinin-1 (46% ID)	2873.7
4.3	2.14 ± 0.13***	3848.7	ND		
4.4	1.87 ± 0.06**	ND	ND		

Please replace Table 6 on page 10 with the following Table:

Peptide ID	Insulin release (ng/10 ⁶ cells/20mins)	Experimental Mass (Da)	Amino acid sequence	Database match	Theoretical (Calculated) Mass (Da)
None	2.76 ± 0.13				
3.1	3.46 ± 0.17***	5125.2	ND		
4.1	4.15 ± 0.01***	2562.6	FLPIIAGVAAKV FPKIFCAISKKC (SEQ ID NO:11)	Pipinin-1 100% ID)	2563.2

Please replace Table 7, bridging pages 11 and 12, with the following table:

Peptide ID	Insulin release (ng/10 ⁶ cells/20mins)	Experi-mental Mass (Da)	Amino acid sequence	Database match	Theoretical (Calculated) Mass (Da)
None	1.87 ± 0.06				
4.14	3.15 ± 0.23**	ND	ND		
4.18	3.52 ± 0.21***	ND	ND		
4.22	3.47 ± 0.40***	1892.6	KGAAKGLLEVASC KLSKSC (SEQ ID NO:12)	Rugosin A 68.4% ID	1891.2
4.23	4.25 ± 0.17***	2930.8	AVITGACERDVQC GGGTCCAVALI (SEQ ID NO:18) ... (insufficient sample)	Protein A/BV8 78% ID	2322.6
4.26	3.08 ± 0.19**	1433.7	ND		
4.27	3.09 ± 0.23**	ND	ND		
4.28	3.19 ± 0.08***	ND	ND		
5.1	3.32 ± 0.22***	4920.4	GIFSKFGRKKIKNL LISGLKNVGKEVG MDVVRTGIDIAGC KIKGEC (SEQ ID NO:13)	Esculentin -1 98% ID	4919.2
5.2	2.95 ± 0.08***	3404.6	ND		
5.3	2.54 ± 0.15**	ND	ND		
5.4	3.30 ± 0.22***	4801.2	GIFSKLAGKKLKN LLISGLKNVGKEV GMDVVRTGIDIAG CKIKGEC (SEQ ID NO:14)	Esculentin -1B 100% ID	4800.8

Peptide ID	Insulin release (ng/10 ⁶ cells/20mins)	Experimental Mass (Da)	Amino acid sequence	Database match	Theoretical (Calculated) Mass (Da)
5.6	2.86 ± 0.37**	3309.2	GILSTIKDFAIKAG KGAAGLLEMAS KLSGQC (SEQ ID NO:15)	Brevinin-2EB 67% ID	3309.0
6.5	5.93 ± 0.47***	3529.3	GILLDKLNFAKT AGKGVLSLLNTA SCKLSGQC (SEQ ID NO:16)	Brevinin-2EC 100% ID	3519.2
6.7	3.46 ± 0.28**	3119.2	ND		
8.3	3.53 ± 0.06***	2676.9	FLPLLAGLAANFLP KIFCKITRKC (SEQ ID NO:17)	Brevinin-1E 100% ID	2676.4